

IN THE CLAIMS

1. (previously presented) A connection management apparatus for connecting a plurality of physically connectable network devices based on connection paths set for individual users, comprising:

a client port connectable to the users via a network;

a server port connectable to a server;

a lookup table including one or more linked pairs of tags and destination addresses, each of said linked pairs indicating a user and a next destination of a received packet by using a tag attached to the received packet as a search key wherein said attached tag indicates a user and a destination; and

a tag replacement and transmission part replacing a tag of the received packet with a tag detected from the lookup table and transmitting the resulting packet to a destination address detected from the lookup table;

wherein a packet received from one of the users and the server is transmitted to one of the plurality of network devices and a packet received from one of the plurality of network devices is transmitted to one of the plurality of network devices, the server and the users, and a sequence of the linked pairs of tags and destination addresses is configured to specify an up-directional connection path of the packet from a client side to a server side or a down-directional connection path of the packet from the server side to the client side.

2. (original) The connection management apparatus as claimed in claim 1, wherein the plurality of network devices are connected in a star topology.

3. (original) The connection management apparatus as claimed in claim 2, wherein in the lookup table search keys are grouped for each of the users.

4. **(currently amended)** The connection management apparatus as claimed in claim 3, wherein in the lookup table the search keys are further grouped for each of ~~an~~ the up-directional connection path ~~of a packet transmitted from a client side to a server side and a~~ the down-directional connection path ~~of a packet transmitted from the server side to the client~~ side.

5. (original) The connection management apparatus as claimed in claim 4, wherein the lookup table further includes one or more physical ports corresponding to search keys together with the pairs of tags and destination addresses each of which indicates a user and a next destination.

6. (original) The connection management apparatus as claimed in claim 1, wherein the lookup table is rewritable through a terminal.

7. (original) The connection management apparatus as claimed in claim 1, wherein the tag is a VLAN tag.